

Achieving Excellence In Execution

2005 NASA Project Management Challenge Conference

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Discussion Agenda...

- The Basics of Project Management
 - ✓ Phases, Techniques & Knowledge Areas
- Factors of Excellence and Project Success
 - ✓ Technical, Analytic & People
- Establishing a High-Performance Culture
 - ✓ Responsibilities, Accountabilities & Value
- Creating a Lessons-Learned Environment
 - ✓ Issue Resolution for Knowledge Management
- Your Questions

Discussion Agenda...

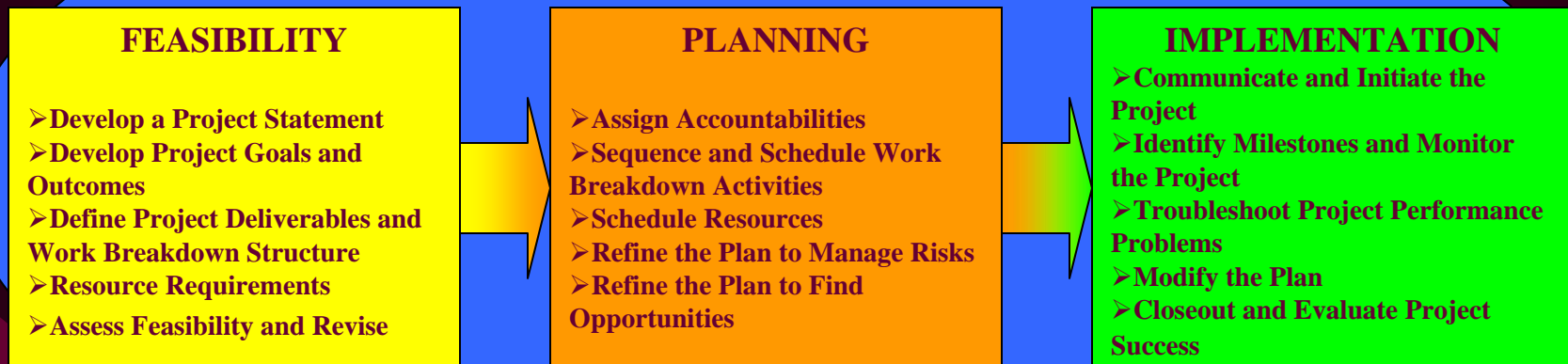
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The Basics of Project Management



*PMI

PROJECT COMMUNICATIONS



CUSTOMER RELATIONSHIP MANAGEMENT

PMI Knowledge Areas

Integration	Scope	Time	Cost	Quality	Human Resources	Communications	Risk	Procurement
Project Plan Developm't	Initiation	Activity Definition	Resource Planning	Quality Planning	Organizational Plng	Communication Plng	Identify Risk	Procurement Planning
Project Plan Execution	Scope Planning	Activity Sequencing	Cost Estimating	Quality Assurance	Staff Acquisition	Information Distribution	Quantify Risk	Solicitation Planning
Overall Chg Control	Scope Definition	Activity Duration Estimation	Cost Budget	Quality Control	Team Developm't	Performance Reporting	Risk Response Developm't	Solicitation
	Scope Verification		Cost Control			Administrative Closure		Source Selection
	Scope Chg Control	Schedule Developm't					Risk Response Control	Administer Contract
		Schedule Control						Contract Closure
INITIATING		PLANNING		EXECUTING		CONTROLLING	CLOSING	

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Project Management Excellence

Process
Integrity

Designing processes to help the enterprise

Product
Integrity

Delivering what the customer wants

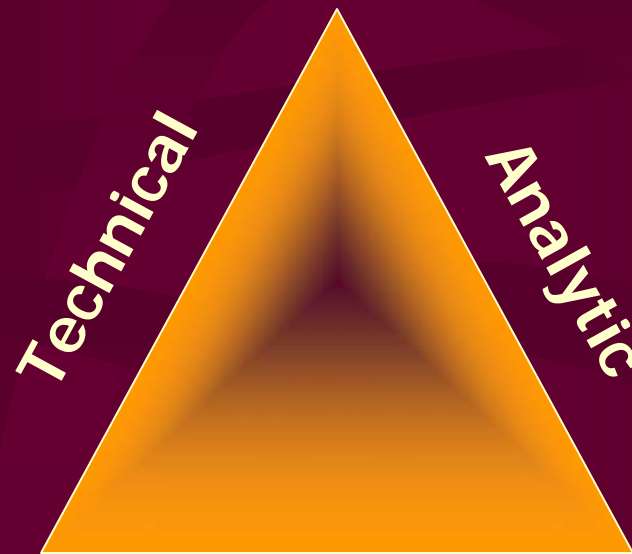
Productivity
Improvement

Working as efficiently as possible

Portfolio
Management

Managing resources to expectations

Successful Project Management



People

Performance Excellence

Causes of Performance Problems

Individual Deficiencies

~ 1%

- Physical
- Mental
- Emotional

Skills/Knowledge Deficiencies

~ 14%

- What to do
- Why to do it
- How to do it
- When to do it

Environmental Deficiencies

~ 85%

- Expectations
- Consequences
- Feedback
- Task Interference

Overcoming Performance Barriers

In an effective project performance environment, people:

- Know what is expected, recognize when to begin, and have the required tools to get the job done
- Have the appropriate knowledge and skills
- Respond as expected
- Are rewarded appropriately
- Are told how they are progressing

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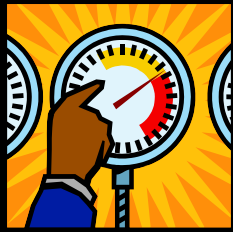
Establishing A Lean Project Environment

- ***Customer Value*** is the Focus
- All resources are available to provide ***Value***
- Resources are integrated to provide ***Value***
- Nothing is waiting to be worked on
- Pursuit of Perfection

Creating A High-Performance Project Culture

- Clear expectations and measures
 - ✓ Work Breakdown Structure
- Clear resource accountabilities
 - ✓ Resource assignments and scheduling
- Gain commitment and buy-in
 - ✓ Project communication & Customer Relationship Management
- Track and modify desired behaviors
 - ✓ Project performance management system

Project Performance System



Clear **Signals**
Initiate Project Tasks



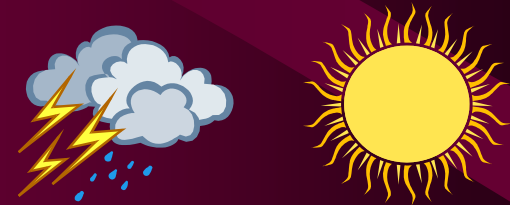
Logical Project
Task Design



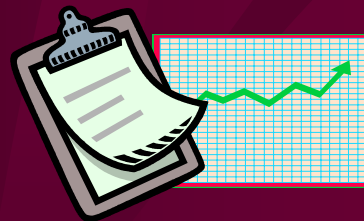
Assignments
✓ Project Team A
✓ Project Team C
✓ J. Walker
✓ D. Mathews
✓ C. Baker



Project Tasks Assigned



Consequences Support
Desired Project Task Behavior



Coaching and Feedback
Guide Performance



Performance System Elements

Signals trigger the appropriate project behavior for the job or task.



Project Task Design is logical and correct for this situation. It is free from obstacles, and necessary resources are readily available.



Project Task accountabilities are clearly assigned. The people have the necessary skills, knowledge and mental or physical capabilities.



Consequences to the employee, team and program support the desired project behavior and correct/modify the undesired behavior.

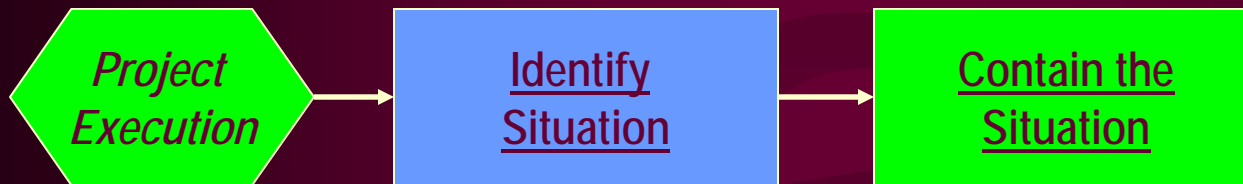


Coaching and **Feedback** guide project task behavior; performance trends are identified.

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Resolving Project Issues



Processes and Tools

Identify Situation

To Clarify Issues and Determine Priority

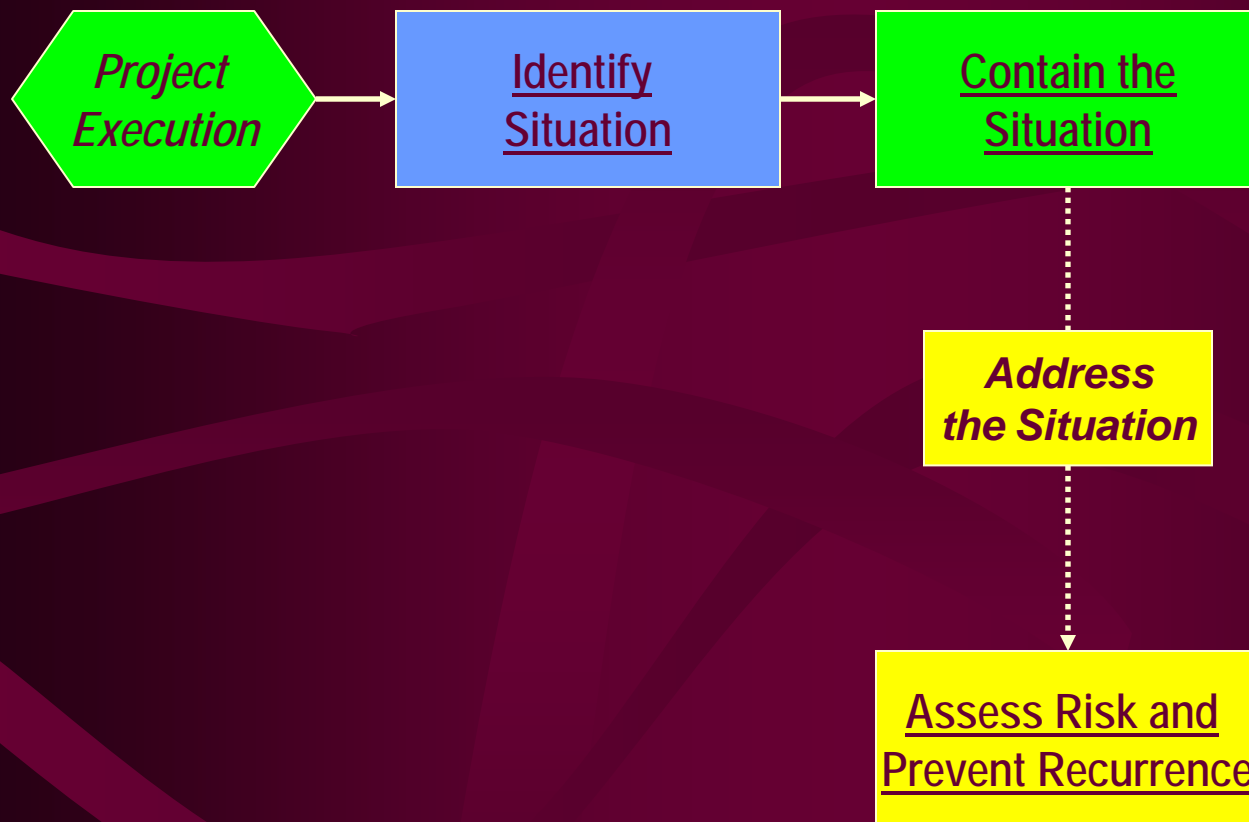
- ✓ Priority Analysis, Pareto Diagrams, Histograms, Value Stream Maps

Contain the Situation

Determine an Interim Action Plan

- ✓ Statistical Control Charts, Cause-Effect Diagrams, Customer Requirements

Resolving Project Issues



Processes and Tools continued

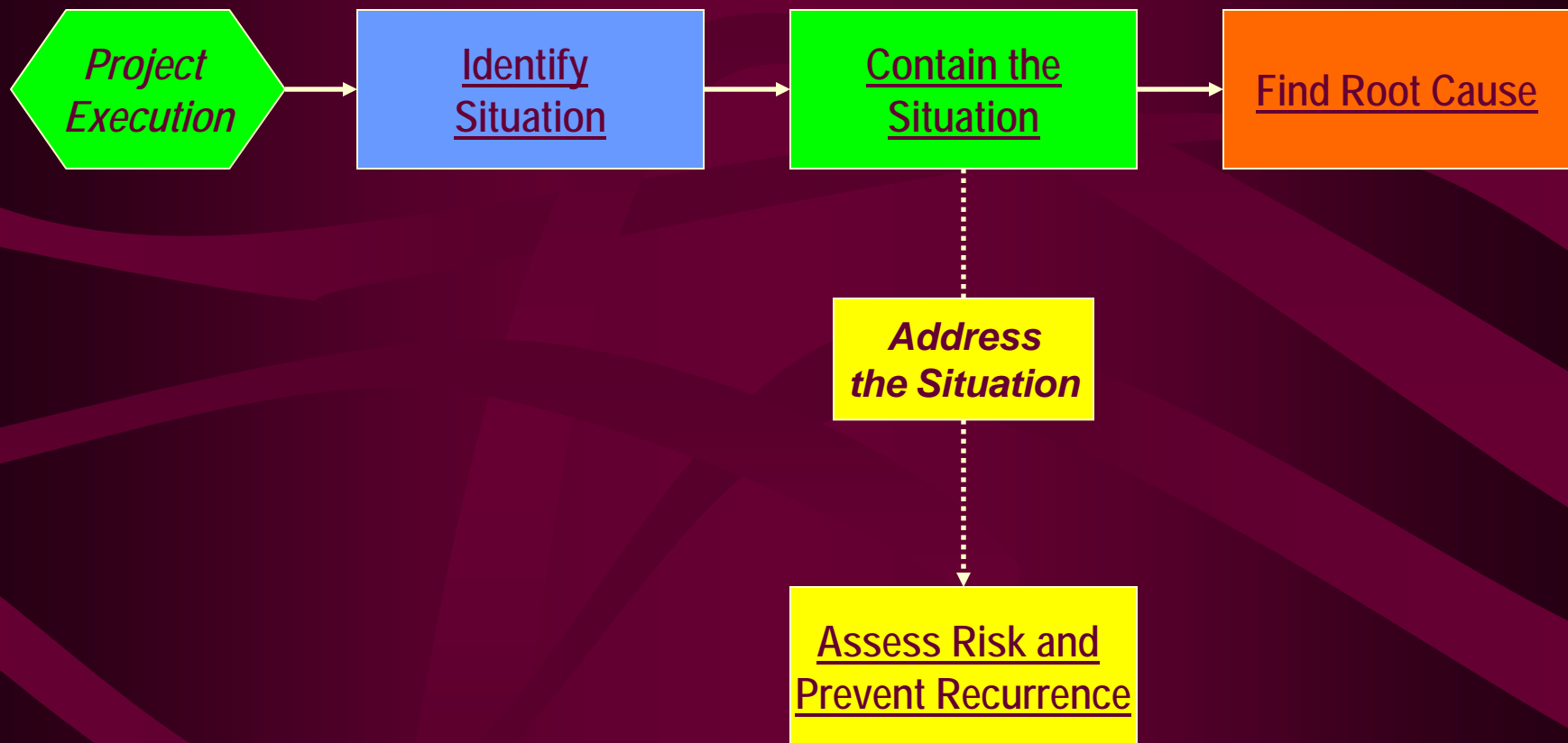
Address the Situation - Implement Action

Assess Risk – Prevent Recurrence

Implement Preventive & Contingent Actions

- ✓ Problem Prevention – Risk Analysis, Design of Experiments, Failure Modes Effect Analysis (FMEA), Monte Carlo Analysis

Resolving Project Issues



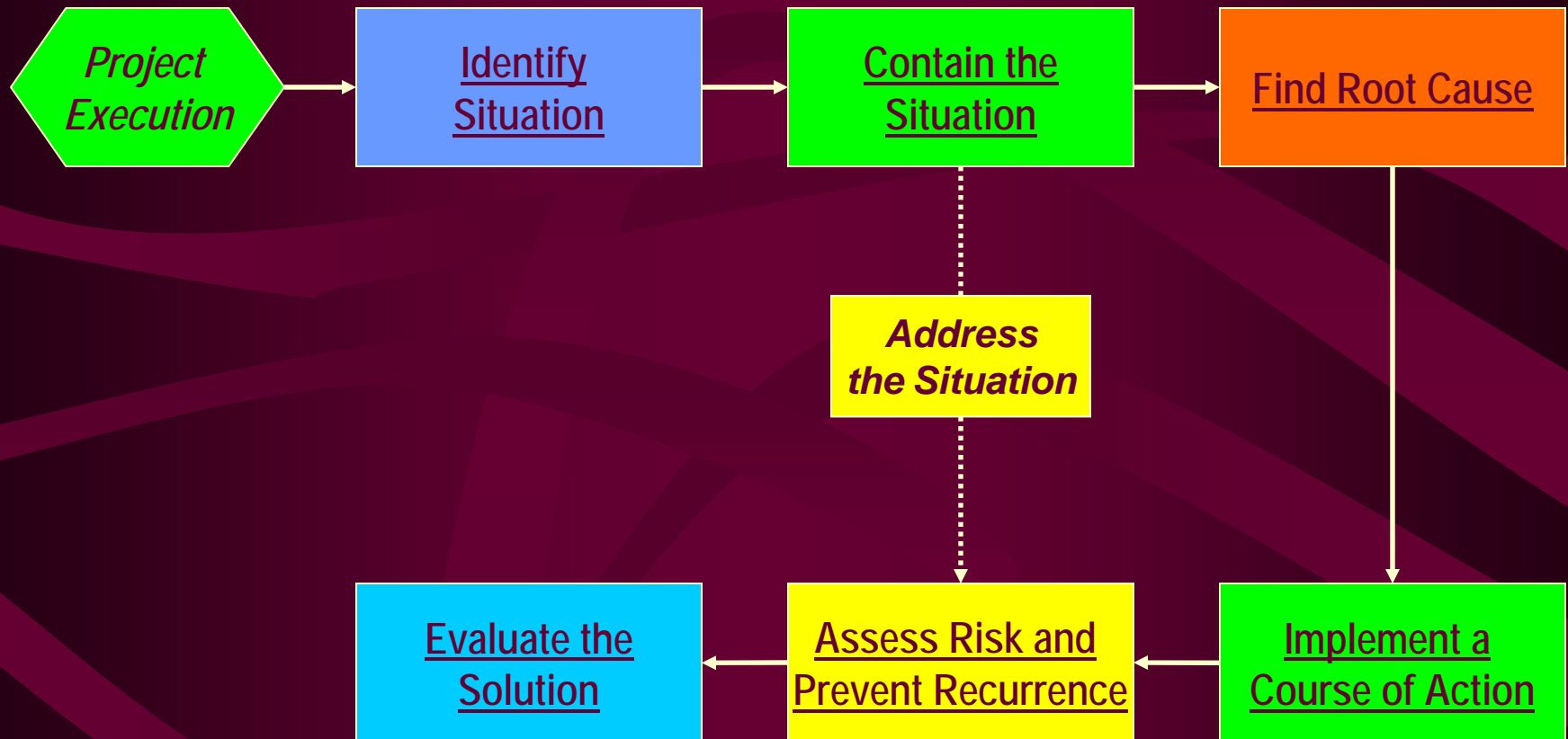
Processes and Tools continued

Find Cause

*Describe the Symptoms,
Analyze for Cause, and
Verify the Findings*

- ✓ Root Cause Analysis, Fault-Tree Analysis, Control Charts, Fishbone Diagrams, Histograms, Run Charts, Scatter Diagrams

Resolving Project Issues



Processes and Tools continued

Implement a Course of Action

Select Best Balance Between Benefit & Risk

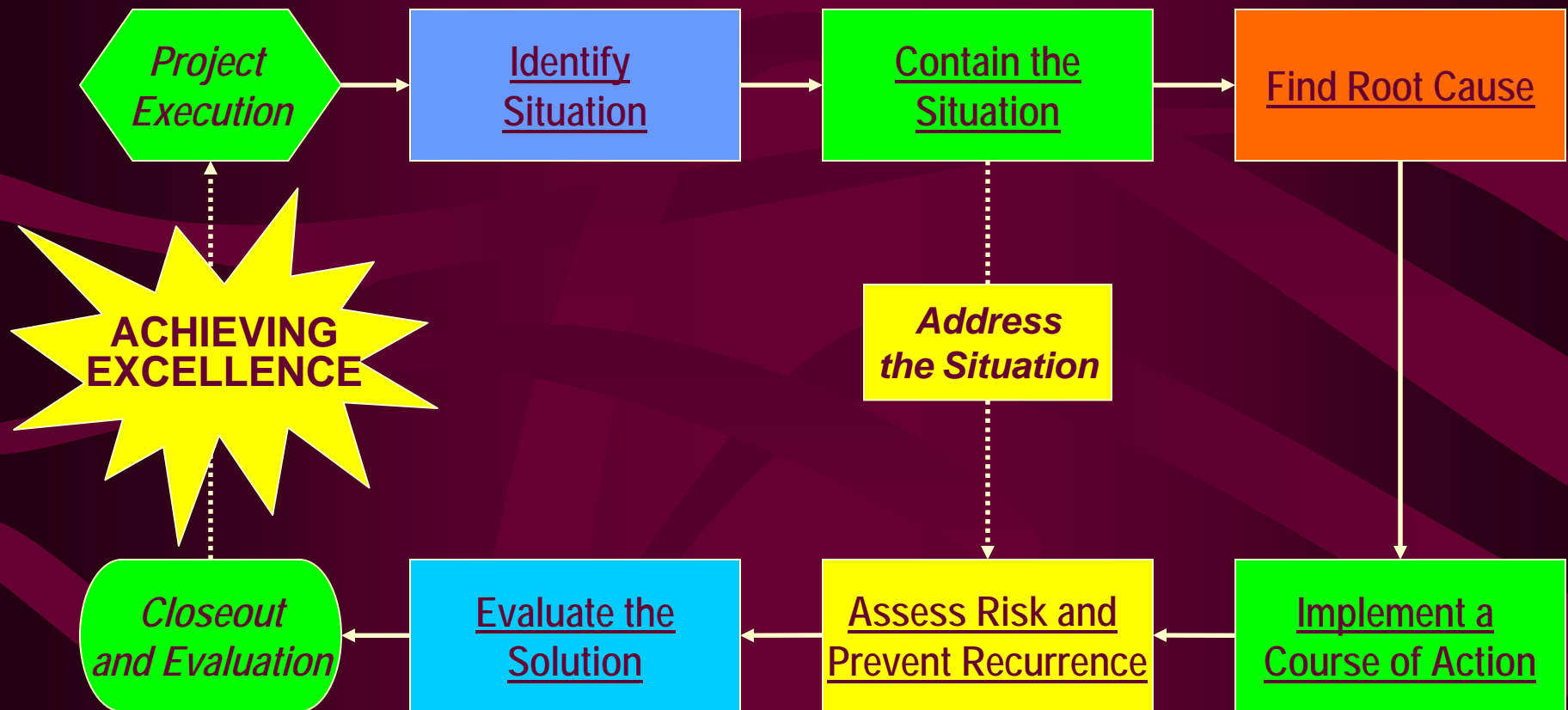
- ✓ Decision Analysis, Design of Experiments, Process Flow Charts

Evaluate the Solution

Assess Action Taken & Optimize Success

- ✓ Opportunity – Benefit Analysis, Pareto Diagrams, Histograms

Resolving Project Issues



Achieving Excellence in Execution

Summary

- Ensure the Right Project Environment
 - ✓ Process and task design
- Establish Project Measures and Accountabilities
 - ✓ What gets measured gets done; who gets measured performs
- Provide a Communications Channel for Process and Task Coaching & Feedback
 - ✓ Formal & informal performance discussions; status reporting
- Capture and Document Project Issues and Resolution Strategies
 - ✓ Lessons learned & a PM knowledge management system

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